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**west virginia** department of environmental protection

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Division of Air Quality  
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Jim Justice, Governor  
Austin Caperton, Cabinet Secretary  
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## **FINAL DETERMINATION**

*for the*

## **CONSTRUCTION**

*of*

**Pleasants Energy, LLC's  
Waverly Power Plant**

*located in*

**Waverly, Pleasants County, WV.**

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**Permit Number: R14-0034  
Facility Identification Number: 073-00022**

**Date: January 23, 2017**

## **BACKGROUND INFORMATION**

Application No.: R14-0034  
Plant ID No.: 073-00022  
Applicant: Pleasants Energy, LLC  
Facility Name: Waverly Power Plant  
Location: Pleasants County  
NAICS Code: 221112  
Application Type: PSD Major Construction  
Received Date: September 18, 2015  
Engineer Assigned: Steven R. Pursley  
Fee Amount: \$11,000  
Date Received: September 21, 2015  
Complete Date: April 18, 2016  
Due Date: October 14, 2016  
Applicant Ad Date: September 26, 2015  
Newspaper: *Pleasants County Leader*  
UTM's: Easting: 468.63 km Northing: 4,353.57 km Zone: 17

On November 29, 1999 Pleasants Energy, LLC submitted a permit application to construct a 300 MW, natural gas fired, simple cycle peaking power facility near Waverly, WV (Pleasants County). The plant included two General Electric (GE) 7FA class simple cycle combustion turbines, each nominally rated at 167.8 MW (while firing natural gas at an ambient temperature of 59° F and 60% relative humidity) including generator, exciter, and associated auxiliary mechanical and electrical systems. The primary fuel was natural gas, and low sulfur distillate fuel oil was to be the backup fuel. The electrical output tied directly into the Allegheny Power transmission system which is located on the property.

The original 1999 application proposed limiting emissions from the facility to less than 250 tons per year of each criteria pollutant in order to avoid constructing a "major" source per 45CSR14 and thereby undergoing PSD review procedures. The resulting permit (R13-2373) limited annual criteria pollutant emissions to minor source levels.

The permit made those limits practically enforceable primarily by limiting the amount of fuel which could be consumed by the turbines and requiring Pleasants Energy to install and operate a Continuous Emissions Monitoring System (CEMS) for NO<sub>x</sub>. Construction of the facility was completed and the plant began operating in 2001.

On September 18, 2015, Pleasants Energy submitted an application to modify the facility. Specifically, Pleasants proposed increasing the permitted amount of fuel which can be combusted by the facility. This modification results in emissions from the facility increasing over the major source threshold of 250 tons per year of both NO<sub>x</sub> and CO. Per 40 CFR 52.21(r)(4);

*"At such time that a particular source or modification becomes a major stationary source or major modification solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements or paragraphs (j) through (s) of this section shall apply to the source or modification as though construction had not yet commenced on the source or modification."*

Therefore, the application submitted by Pleasants Energy on September 18, 2015, was subject to all requirements of PSD review.

On December 20, 2016 the West Virginia Division of Air Quality (DAQ) went to public notice in the *St. Marys Oracle* with a preliminary determination to issue the Prevention of Significant Deterioration (PSD) permit R14-0034 to Pleasants Energy, LLC for the proposed construction of a natural gas fired, electric generation facility near Waverly, Pleasants County WV. On this date, a preliminary determination/fact sheet and draft permit were made available to the applicant, the public (documents available for review at the DAQ Main Office), and the Environmental Protection Agency (EPA). Comments were required to be submitted by 5:00 PM on January 20, 2016.

This document will summarize the comments received on the draft permit, any actions taken as a result of the comments, substantive changes, to the draft permit, and the final determination of the DAQ regarding R14-0034.

## **COMMENTS**

No comments were received from the applicant, USEPA, the general public or any other entity.

## **CHANGES TO DRAFT PERMIT**

No changes were made to the proposed draft permit.

## **NOTIFICATIONS**

Upon the Director's acceptance of this final determination, a copy of the final determination and final permit will be placed on DAQs website. Additionally, a copy of the final, signed permit, will be emailed to the applicant.

## **FINAL DETERMINATION**

It is the view of the writer that, after consideration of all comments received, all available information indicates Pleasants Energy, LLC construction of a natural gas fired electric generation facility should meet the emission limitations and conditions set forth in the permit and should comply with all currently applicable state and federal air quality management rules and standards. It is, therefore, the recommendation of the undersigned that the WVDEP-DAQ make a final determination to issue the attached permit R14-0034.



Steven R. Pursley, PE  
Engineer



January 23, 2017